

Algebra 2

Name:

2.4 Writing Equations of Parallel/Perpendicular Lines

Ms. Stoltz

Write an equation in slope-intercept form of the line that passes through the given point and is parallel to the given line.

1.) $y = -2x + 5$
(3,1)

2.) $y = 3x - 5$
(-1,-2)

3.) $y = \frac{5}{4}x - \frac{1}{4}$
(-8,2)

4.) $y = -3x + 8$
(-1,-4)

5.) $y = \frac{4}{3}x + 5$
(12,3)

6.) $y = -\frac{3}{4}x - 2$
(4,-2)

Write an equation in slope-intercept form of the line that passes through the given point and is perpendicular to the given line.

7.) $y = \frac{1}{6}x - 3$
(2,4)

8.) $y = -\frac{3}{2}x - \frac{7}{2}$
(6,1)

9.) $y = -\frac{5}{2}x + 2$
(10,5)

10.) $y = -\frac{4}{3}x - 2$
(4,1)

11.) $y = \frac{1}{4}x - 4$
(-2,3)

12.) $y = -\frac{1}{5}x + 1$
(2,3)